

Assistant Professor (Tenure-Track) - Mechanical and
Industrial Engineering (2 positions)
Louisiana State University

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Posted Oct. 1, 2024, set to expire Apr. 1, 2025

Job Title	Assistant Professor (Tenure-Track) - Mechanical and Industrial Engineering (2 positions)
Department	Department of Mechanical and Industrial Engineering https://lsu.edu/eng/mie/index.php
Institution	Louisiana State University Baton Rouge, Louisiana
Date Posted	Oct. 1, 2024
Application Deadline	Open until filled
Position Start Date	August 2025
Job Categories	Assistant Professor
Academic Field(s)	Robotics Nuclear Mechanical Engineering Industrial & Systems Engineering Human Factors Engineering/Ergonomics Energy Technology
Apply Online Here	https://lsu.wd1.myworkdayjobs.com/LSU/job/3261-Patrick-F-Taylor-Hall/Assistant-Professor--Tenure-Track---Mechanical-and-Industrial-Engineering--2-positions-_R00099361
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Job Description	

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Louisiana State University (LSU) in Baton Rouge invites applications and nominations for two tenure-track faculty positions in the Department of Mechanical and Industrial Engineering (MIE) to complement its strategic research application areas of Energy and Defense.

LSU is the Flagship University of the State of Louisiana with its main campus in the vibrant city of Baton Rouge, offering many cultural and recreational opportunities and high-quality housing. MIE is the largest department in the College of Engineering and provides leadership to several research centers, including (1) Future Use of Energy in Louisiana (FUEL) the NSF ENGINE, \$160M, 10 yr recent award focusing on the Energy Transition; (2) The Louisiana Materials Design Alliance (LAMDA), a \$20M, 5-yr cooperative agreement funded by the National Science Foundation (NSF) focusing on manufacturing process design for additive manufacturing (in metals, polymers and composites) using a model-make-measure paradigm enabled by machine-learning technologies and data science; (3) The NSF Industry/University Collaborative Research (I/UCRC) Center for Innovation in Structural Integrity Assurance (CISIA) with several industry members; (4) The LSU Institute for Energy Innovation, funded by Shell; (5) The P41 National Institutes of Health (NIH) Center for BioModular Multi-scale Systems for Precision Medicine as a partner to the University of Kansas, (6) the NSF CREST Center for Next Generation Multifunctional Composites as a partner to Southern University, and (7) The National Center for Advanced Manufacturing (NCAM), a unique partnership between the State of Louisiana and NASA emphasizing large-scale manufacturing. Associated research efforts leverage the Center for Computation and Technology (CCT) with formidable high-performance computing capability and relevant scientific research ecosystem, and the Center for Advanced Microstructures and Devices (CAMD), the only University-run synchrotron facility in the USA.

Appointments will be made at the Assistant Professor level, one in the mechanical engineering program and one in the industrial engineering program, though applicants with exceptional qualifications may be considered at other ranks. Research expectations include: both the ability to work independently and to pursue interdisciplinary collaborations; sustain an innovative, nationally recognized, and externally funded research and scholarly program; and growing relationships with industry. Teaching expectations include a commitment to effective instruction and mentoring at the undergraduate and graduate levels, and supervision of student research.

Job Responsibilities:

50% Teaching at the undergraduate and graduate level and associated service in support of the educational mission and reputation of the unit.

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50% Research, especially in the general application areas of Energy and/or Defense, resulting in scholarship published in archival journals and research grant/contract solicitation to support it, along with associated service in support of the research mission and reputation of the unit.

Minimum Qualifications:

Ph.D. in Engineering or related scientific field; at least four years of experience, including graduate study; Experience in any area of mechanical or industrial engineering, especially as related to the general application areas of Energy and/or Defense.

Preferred Qualifications:

Bachelor's degree in Industrial or Mechanical or Aerospace or Nuclear Engineering, or related discipline, (ABD candidates will be considered so long as degree requirements are met prior to August, 2025); Experience/Expertise is sought in any of the following subjects as related to the targeted application research areas: robotics & intelligent systems such as cyber-physical, networked, human-machine, co-robot, and autonomous systems; assistive, social, bio-inspired, wearable, bio-hybrid robotics; cognitive engineering and human performance augmentation; cybersecure robotic systems; nuclear energy including fusion, de-carbonization and/or energy efficiency and other energy transition technologies, or wave energy production; less- energy-intensive and low-carbon advanced manufacturing technologies (e.g. additive manufacturing, smart manufacturing systems, and robotics/automation aspects); Cross-cutting experience straddling more than one of these subjects, and/or experience in applying modern approaches such as artificial intelligence, machine learning, data science (big data, analytics) and cybersecurity to the targeted research application areas (energy and defense) will be viewed very favorably.

Special Instructions:

Please attach the following as one single PDF to your online application: cover letter, curriculum vitae, teaching philosophy statement, research plan statement and three professional references including name, title, phone number and e-mail address.

A copy of your transcript(s) may be attached to your application (if available). However, original transcripts are required prior to hire.

An offer of employment is contingent on a satisfactory pre-employment background check.

The review of applications will begin on October 20, 2024 and will continue until the positions are filled. The expected start date for these positions is August 2025. Salary will be competitive based on qualifications. Campus interviews will be conducted in Baton Rouge, LA prior to an offer being



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extended.

For questions or concerns regarding the status of your application or salary ranges, please contact Dr. Dimitris E. Nikitopoulos at medimi@lsu.edu.

Additional Position Information:

Background Check -An offer of employment is contingent on a satisfactory pre-employment background check.

Benefits - LSU offers outstanding benefits to eligible employees and their dependents including health, life, dental, and vision insurance; flexible spending accounts; retirement options; various leave options; paid holidays; wellness benefits; tuition exemption for qualified positions; training and development opportunities; employee discounts; and more!

Positions approved to work outside the State of Louisiana shall be employed through Louisiana State University's partner, nextSource Workforce Solutions, for Employer of Record Services including but not limited to employment, benefits, payroll, and tax compliance. Positions employed through Employer of Record Services will be offered benefits and retirement as applicable through their provider and will not be eligible for State of Louisiana benefits and retirement.

LSU is an Equal Opportunity Employer and SAME Agency:

LSU is designated as a [State As a Model Employer \(SAME\)](#) agency and provides assistance to persons needing accommodations or with the accessibility of materials. For those seeking such accommodations or assistance related to this search, we encourage you to contact the Office of Human Resource Management (hr@lsu.edu).

HCM Contact Information:

For questions or concerns related to updating your application with attachments (e.g., resumes, RS:17 documents), date of birth, or reactivating applications, please contact the LSU Human Resources Management Office at 225-578-8200 or email HR@lsu.edu. For questions or concerns regarding the status of your application or salary ranges, please contact the department using the information provided in the Special Instructions section of this job posting.



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Contact Information

Please reference Academickeys in your cover letter when
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Contact

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